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## **Amendments To The Claims:**

This listing of claims will replace all prior versions and listing of claims in this application.

## **Listing of Claims:**

- 1. (Currently Amended) A method of making molecular sieve catalyst particles, the method comprising the steps of:
- a) providing a solution or suspension of an aluminum-containing inorganic oxide precursor in a liquid medium, wherein at least 6 atom% of the aluminum in the precursor is in a form exhibiting an <sup>27</sup>Al NMR peak at 62-63 ppm;
- b) combining the solution or suspension of aluminum-containing inorganic oxide precursor with a molecular sieve, and optionally other formulating agents, to form a catalyst formulation slurry; and
- c) aging the catalyst-formulation slurry to generate in said slurry a percentage, or increase in said slurry the existing percentage, of aluminum atoms of the aluminum containing precursor in the form of oligomers having a sharp. <sup>27</sup>Al NMR peak at 62-63 ppm; and
  - forming molecular sieve catalyst particles from the catalyst formulation slurry.
- 2. (Canceled)
- 3. (Currently Amended) The method of claim 1, wherein aging is earried out the provided solution or suspension is aged at a temperature and for a period of time such that at least 5 atom % of the aluminum atoms of the aluminum-containing precursor in the catalyst formulation slurry is in the form of oligomers having between 10 and 75 aluminum atoms per molecule.
- 4. (Currently Amended) The method of claim 3, wherein aging is earried out the provided solution or suspension is aged at a temperature and for a period of time such that at least 10 atom % of the aluminum atoms of the aluminum-containing precursor in the catalyst formulation slurry is in the form of oligomers having between 10 and 75 aluminum atoms per molecule.
- 5. (Canceled)

- 6. (Currently Amended) The method of elaim 2 claim 1, wherein at least 8 atom % of the aluminum atoms of the aluminum-containing precursor in the eatalyst formulation slurry precursor is in the form of oligomers having a sharp <sup>27</sup>Al NMR peak at 62-63 ppm.
- 7. (Currently Amended) The method of elaim 2 claim 1, wherein the inorganic oxide precursor comprises an aluminum oxide precursor and a zirconium oxide precursor.
- 8. (Currently Amended) The method of elaim 2 claim 1, wherein the inorganic oxide precursor is an aluminum oxide or aluminum-zirconium oxide precursor.
- 9. (Currently Amended) The method of elaim 2 claim 1, wherein the inorganic oxide precursor is selected from the group consisting of aluminum chlorohydrate and aluminum-zirconium chlorohydrate.

10-15. (Canceled)

- 16. (Currently Amended) The method of claim 1, wherein the catalyst formulation slurry further contains one or more of a material selected from the group consisting of a matrix material, preferably a clay, more preferably and kaolin clay.
- 17. (Original) The method of claim 1, wherein the molecular sieve is a metalloaluminophosphate molecular sieve.
- 18. (Original) The method of claim 1, wherein the molecular sieve is a silicoaluminophosphate molecular sieve.
- 19. (Original) The method of claim 18, wherein the molecular sieve is selected from SAPO-18, SAPO-34, SAPO-44, intergrown forms thereof, metal-containing forms thereof, and mixtures thereof.
- 20. (Currently Amended) The method of claim I, wherein at least a portion of the molecular sieve used in step b) is provided in the form of uncalcined molecular sieve catalyst particles.

- 21. (Currently Amended) The method of elaim 2 claim 1, wherein the catalyst formulation slurry prepared in step b) has a viscosity of from 1.0 to 10.0 Pa-s, preferably of from 1.2 to 9.5 Pa-s, when measured at a temperature between 23°C and 30 °C, using a Brookfield LV viscometer, with a #3 spindle at 10 rpm.
- 22. (Original) The method of claim 1, wherein forming the catalyst particles is performed by spray drying.
- 23. (Original) The method of claim 1, further comprising the step of calcining the molecular sieve catalyst particles.
- 24. (Currently Amended) A method of making molecular sieve catalyst particles, the method comprising the steps of:
- a) preparing aging a solution or suspension of an aluminum-containing inorganic oxide precursor in a liquid medium at a temperature of from 0°C to 100°C so that at least 6 atom% of the aluminum in the precursor exhibits an <sup>27</sup>Al NMR peak at 62-63 ppm;
- b) combining the <u>aged</u> solution or suspension of inorganic oxide precursor with a molecular sieve, and optionally other-formulating agents, to form a catalyst formulation slurry; and
  - c) aging the suspension of inorganic exide; and
- d) forming molecular sieve catalyst particles from the catalyst formulation slurry; wherein said aging is carried out at a temperature and for a duration such that the catalyst formulation slurry has a Relative Binding Efficiency between 1.02 and 1.25.
- 25. (Original) The method of claim 24, wherein the liquid medium is water.
- 26. (Canceled)
- 27. (Original) The method of claim 25, wherein the inorganic oxide precursor comprises an aluminum oxide precursor and a zirconium oxide precursor.

- 28. (Original) The method of claim 25, wherein the inorganic oxide precursor is an aluminum oxide or aluminum-zirconium oxide precursor.
- 29. (Original) The method of claim 25, wherein the inorganic oxide precursor is selected from the group consisting of aluminum chlorohydrate and aluminum-zirconium chlorohydrate.
- 30. (Currently Amended) The method of claim 25, wherein aging in stop o) takes place by maintaining the catalyst formulation slurry at a temperature of from 0°C to 100°C for a period of at least 2 hours, preferably for a period of at least 4 hours.
- 31. (Original) The method of claim 30, wherein the catalyst formulation slurry is maintained at a temperature of from 15°C to 80°C.
- 32-34. (Canceled).
- 35. (Currently Amended) The method of claim 32, wherein the solution or suspension of inorganic oxide precursor is maintained aged at a temperature of from 15°C to 50°C for a period of not more than 4 hours.
- 36. (Currently Amended) The method of claim 25, wherein the catalyst formulation slurry further contains one or more of a material selected from the group consisting of a matrix material, preferably a clay, more preferably and kaolin clay.
- 37. (Original) The method of claim 25, wherein the molecular sieve is a metalloaluminophosphate molecular sieve.
- 38. (Original) The method of claim 25, wherein the molecular sieve is a silicoaluminophosphate molecular sieve.
- 39. (Original) The method of claim 38, wherein the molecular sieve is selected from SAPO-18, SAPO-34, SAPO-44, intergrown forms thereof, metal-containing forms thereof, and mixtures thereof.

- 40. (Currently Amended) The method of claim 25, wherein at least a portion of the molecular sieve used in step b) is provided in the form of uncalcined molecular sieve catalyst particles.
- 41. (Currently Amended) The method of claim 25, wherein the catalyst formulation slurry prepared in step b) has a viscosity of from 1.0 to 10.0 Pa-s, preferably of from 1.2 to 9.5 Pa s, when measured at a temperature between 23°C and 30 °C, using a Brookfield LV viscometer, with a #3 spindle at 10 rpm.
- 42. (Original) The method of claim 24, wherein forming the catalyst particles is performed by spray drying.
- 43. (Original) The method of claim 24, further comprising the step of calcining the molecular sieve catalyst particles.

44-103. (Canceled)

- 104. (New) The method of claim 1, wherein the provided solution or suspension is further analyzed by <sup>27</sup>Al NMR spectroscopy to determine the atom% of the aluminum in the precursor.
- 105. (New) The method of claim 24, wherein the aged solution or suspension is further analyzed by <sup>27</sup>Al NMR spectroscopy to determine the atom% of the aluminum in the precursor.